# Standards of Public Land Health Evaluation of 65074 SAND CAMP RANCH Allotment [ 7/27/2005 ]

The Roswell Field Office conducted rangeland health assessments at five (5) study sites within Sand Camp Ranch, allotment #65074. These assessments evaluated Soil/Site Stability, Hydrologic Function and Biotic Integrity indicators within each study site location. Existing monitoring data was incorporated into and in support of these field assessments. A summary of each assessment is attached and shown in the following table.

Study Area or		UPLAND			BIOTIC			RIPARIAN	
Assessment Area	Meets	Monitor an Indicator	Does Not Meet	Meets	Monitor an Indicator	Does Not Meet	Meets	Monitor an Indicator	Does Not Meet
65074- ANCHOR-D137 (*)	X			X			N/A		
65074-EAST NAIL-D133 (*)	X			X			N/A		
65074-HORSE- D135 (*)	X			X			N/A		
65074- PIPELINE-D136 (*)	X			X	*		N/A		
65074-WEST NAIL-D134 (*)	X			X			N/A		

Twenty-two (22) indicators for Rangeland Health were evaluated for public land on Sand Camp Ranch, allotment #65074. Ten (10) of these assessed soil site stability, 11 hydrologic function and 13 biotic integrity. These qualitative assessments in conjunction with quantitative information gathered from previous data collected on five trend plot locations were utilized to assess rangeland health of public land within this allotment. Quantitative evaluations are performed by the Roswell Field Office, which include some or all of the following: ground and vegetative cover and composition, production, frequency and ecological condition. These collections which were initiated in the late 1970's/early 1980's, are scheduled and conducted approximately every 5 years.

East Nail, West Nail and Pipeline Pastures are CP-2 Deep Sand ecological sites. Anchor and Horse Pastures are SD-3 Shallow Sandy and Shallow ecological sites respectively. East Nail is a Faskin soil consisting of deep, well drained formed in aeolian and alluvial sediments on uplands. The elevation is 3,500 ft/1,060 m to 4,100 ft/1,242 m on 0-3 percent slopes. The acreage is 2,436 or 986 hectares. Most of the indicators assessed rated None to Slight and Slight to Moderate. No

livestock were observed at the time of evaluation. Wind-scoured blowouts/depositional areas, annual production and physical crusts deviated moderately from the ESD and long-term average. Blowouts were occasionally present but are revegetating with native grasses, most notably threeawn (Aristida spp.). Annual production is currently estimated at 600 lbs/ac or kg/ha which is approximately 60% of potential. Physical crusts are evident throughout with breaks in continuity but are a minor component of interspaces. Grasses observed on site are little bluestem (Schizachyrium scoparium), dropseed (Sporobolus spp.) and threeawn.

West Nail is a Faskin-Roswell complex occurring on severely wind-blown uplands in the eastern part of the survey area and west of the High Plains. Slope is 0 to 15 percent between 3,500 ft/1,060 m and 4,100 ft/1,242 m in elevation. The site is 2,066 acres/836 hectares in size. Cattle are present at the trough and windmill. A major pipeline is just adjacent with a pipeline road dissecting the pasture. Some gullying is occurring on this road, but does not impact the site. Indicators of concern that moderately deviates from established parameters are: pedestals and/or terracettes, wind-scoured blowouts and/or depostional areas, litter movement, functional/structural groups, and invasive plants. Pedestals are in flow paths and are elevating threeawn and dropseed grasses with some roots exposed. Blowouts are occasionally present especially on the windward side of the dunal formations. Litter is being displaced and is piling up against obstructions and depressional areas. Sunflower (Helianthus annus) comprises the majority of the litter. Rodents also are utilizing this litter for shelter and nesting habitat. The grasses somewhat reduced are little and sand bluestem (Andropogon hallii) in favor of threeawn. A good forb component exists however and aides in vegetative ground cover. Shinnery oak (Quercus havardii) is also reduced in favor of mesquite (Prosopis glandulosa) that is scattered and encroaching towards becoming common. Mule deer (Odocoileus hemionus) and lagomorph sign is present. These animals are utilizing the buckwheat (Eriogonum spp.) and stickleaf (Mentzelia spp.), along with other plants. The remainder of indicators assessed rated None to Slight and Slight to Moderate falling within normal ranges of variability.

Pipeline Pasture is a Roswell-Jalmar complex. This soil is on deep sand uplands in the eastern part of the survey area west of the High Plains. Slopes are 0 to 15 percent with elevations between 3,500 ft/1,060 m and 4,100 ft/1,242 m. The site is 1,031 acres/417 hectares in size. Wind-scoured blowouts are occasionally present and rate Moderate. Functional/structural groups rates Moderate due to reductions of bluestem, dropseed and grama grass components. Annual production was estimated at 400-450 lbs/ac or kg/ha far below the ESD, but approximately 1/2 of the long-term average. Invasive plants rates Moderate with mesquite scattered throughout. All other indicators rated None to Slight and Slight to Moderate falling within normal ranges of variability.

Anchor Pasture rated most indicators Slight to Moderate with attributes falling mainly within normal ranges of variability. This site is 1,127 acres/456 hectares in size on a Simona soil series well drained and shallow to very shallow formed in aeolian and alluvial sediments on uplands. The elevation is 3,400 ft/1,030 m to 3,800 ft/1,151 m on 0 to 5 percent slopes. Indicators rating Moderate are functional/structural groups and annual production. Grass plant groups comprising of black grama (Bouteloua eriopoda) and blue grama (Bouteloua gracilis) are reduced and replaced by snakeweed (Gutierrezia sarothrae), three-awn and mesquite. Annual production is 60 percent of the long-term average and well below ESD parameters. There remains an adequate

layer of mulch and litter protecting the site however. Of additional concern is invasive plants. Mesquite is common and slowly encroaching. Miscellaneous forbs were observed also along with pockets of burrograss (Scleropogon brevifolius).

Horse Pasture had no livestock present. This site is approximately 3/4 mile from the ranch headquarters on a Shallow SD-3 upland area. The acreage is 623 or 252 hectares. The soil is a Tencee consisting of well drained, very shallow to indurated caliche. It formed in gravelly and cobbly alluvium on uplands. The slope is 1-3 percent on elevations between 3,400 ft/1,030 m and 4,200 ft/1,273 m. Bareground was estimated at 60%, slightly exceeding the long-term average and doubling ESD parameters. This indicator rates Moderate. Hairy grama (Bouteloua hirsuta) and bush muhly (Muhlenbergia porteri) are missing in most areas. Three-awn and snakeweed have established. Forbs like bladderpod (Lesquerella spp.), croton (Croton spp.) and shrubs feather dalea (Dalea formosa), dogweed (Dyssodia spp.) and catclaw (Acacia spp.) are the principal plant species. Mesquite has encroached those lower depressional areas suggesting a deeper rooting depth there. Invasive plants rates Moderate to Extreme as this shrub has potential to dominate. Black and blue grama are still abundant in isolated areas. A good physical crust protects the soil while biological crusts were observed scattered throughout as well. The remainder of indicators fall within normal ranges of variability from parameters established, rating None to Slight and Slight to Moderate.

In the professional opinion of the Assessment Team, public land within Sand Camp Ranch allotment #65074, meets Upland and Biotic Standards. There are no Riparian issues present, therefore this standard was not addressed. See site notes and recommendations for additional information regarding the assessments for the ecological sites within this allotment.

The (\*) indicates that the assessment had one or more indicator(s) rated moderate/extreme or extreme. These indicators are:

- Invasive Plants
- Wildlife Habitat
- Special Status Species Habitat
- Special Status Species Populations

These indicators by themselves are not enough to rate the site as not meeting a standard but may warrant future monitoring.

**Recommendations:** Pastures with ratings of Moderate to Extreme for invasive plants should be reviewed for possible mesquite control to curtail the encroachment. The current rotational grazing system by the allottee should continue and help those areas rebound that have been stricken with dry conditions.

RFC	<b>Os Upland</b>	and Biotic Standar	rd Asses	sment Su	mmary W	orksl	ieet	
		SITE 65074-	ANCHO	R-D137				
Legal	Land Desc	NESE 8 0140S 0290E Meridian 23	3		Acreage		112	7
	Ecosite	042CY002NM SHAL SANDY SD-3	LOW		Photo	Taken	Y	
	Watershed	13060007100 WHITE	E LAKE					
	Observers	ARTHUN/JAQUEZ			Observation	n Date	07/1	3/2005
County	Soil Survey	NM666 CHAVES SO	UTH		Soil Var/	Taxad		
So	il Map Unit	Sm			Soil Taxon	Name	SIM	ONA
Те	exture Class	NM666 FSL			Soil	Phase	SIM	ONA
Textu	re Modifier	NM666 FINE SAND	Y LOAM					
Observed Avg Annual Precipitation					ved Avg Gr ason Precip	_		
	AA Annual recipitation		12.2	NOAA Growing Season Precipitation			8.66	
NOAA Avg Annual Precipitation			12.98	NOAA Avg Growing Season Precipitation				10.67
	rbances and Animal Use:							
Part 2. Attr	ibutes and	Indicators						
				e from Ecol on/Ecologi		ce Are	as	
Attribute	Indicators		Extreme	Moderate to Extreme	Moderate	Sligh Mode		None to Slight
SH	Rills							X
Comments:								
SH	Water Flow	Patterns						X
Comments:			-					
SH	Pedestals a	nd/or Terracettes				X		
Comments:								
SH	Bare Groun	nd				X		
Comments:	Current est	imation is 40%.						
S H	Gullies							X
Comments:								

S	Wind-scoured, Blowouts, and/or Deposition Areas					X
Comments:						
Н	Litter Movement				X	
Comments:						
SHB	Soil Surface Resistance to Erosion				X	
Comments:						
SHB	Soil Surface Loss or Degradation				X	
Comments:						
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff				X	
Comments:						
S H B	Compaction Layer					X
Comments:						
В	Functional/Structural Groups			X		
Comments:	Absence of some perennial grass.					
В	Plant Mortality/Decadence					X
Comments:						
Н В	Litter Amount				X	
Comments:	Within the range. at 30% estimate					
В	Annual Production			X		
Comments:	Current estimation is 400 lbs/ac waverage.	hich is 1/	2 of expect	ed and of t	he long-ter	m
В	Invasive Plants		X			
Comments:	Mesquite common.					
В	Reproductive Capability of Perennial Plants				X	
Comments:						
S	Physical/Chemical/Biological Crusts				X	
Comments:						
В	Wildlife Habitat		X			
Comments:						
В	Wildlife Populations			X		

В	Special Status Species Habitat	X		
Comments:	Eastern edge of LPC area			
В	Special Status Species Populations		X	
Comments:	Eastern edge of LPC area			

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	0	5	5
Н	Hydrologic	0	0	0	7	4
В	Biotic	0	3	4	4	2

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	0	10
Hydrologic		0	0	11
Biotic		3	4	6
Site Notes:				

RF(	Os Upland	and Biotic Standa	rd Asse	ssment Su	mmary W	orksl	neet	
		SITE 65074-E	AST N	AIL-D133				
Lega	al Land Desc	SESW 17 0130S 029 Meridian 23	0E		A	creage	2436	5
	Ecosite	070BY063NM DEED SAND CP-2	P		Photo	Taken	Y	
	Watershed	13060007100 WHIT LAKE	Е					
	Observers	ARTHUN/JAQUEZ			Observation	n Date	07/1	3/2005
County	Soil Survey	NM666 CHAVES SO	OUTH		Soil Var/	Taxad		
So	oil Map Unit	Fa			Soil Taxon	Name	FAS	KIN
Т	exture Class	NM666 LFS			Soil	Phase	FAS	KIN
Text	ure Modifier	NM666 FINE SAND	)					
	Avg Annual Precipitation			Observed Avg Growing Season Precipitation				
	OAA Annual Precipitation		12.2	NOAA Growing Season Precipitation			8.66	
	Avg Annual Precipitation		12.98	NOAA Avg	Growing S Precipa			10.67
	urbances and Animal Use:							
Part 2. Attr	ibutes and I	ndicators						
				re from Ecol tion/Ecologi		ce Are	as	
Attribute	Indicators		Extreme	Moderate to Extreme	Moderate	Sligh Mode		None to Slight
SH	Rills							X
Comments:								
SH	Water Flow	Patterns						X
Comments:								
SH	Pedestals an	d/or Terracettes				X		
Comments:								
SH	Bare Ground	d				X		
Comments:	Current esti	mate is 30-40%.						
SH	Gullies							X
Comments:								

S	Wind-scoured, Blowouts, and/or Deposition Areas	X		
Comments:	Occasionally present but are vegetating.			
Н	Litter Movement		X	
Comments:				
SHB	Soil Surface Resistance to Erosion		X	
Comments:				
SHB	Soil Surface Loss or Degradation		X	
Comments:				
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff		X	
Comments:				
SHB	Compaction Layer			X
Comments:				
В	Functional/Structural Groups		X	
Comments:				
В	Plant Mortality/Decadence			X
Comments:				
Н В	Litter Amount		X	
Comments:	50% is the current estimate.			
В	Annual Production	X		
Comments:	600 lbs/ac is the current estimate.			
В	Invasive Plants		X	
Comments:				
В	Reproductive Capability of Perennial Plants			X
Comments:				
S	Physical/Chemical/Biological Crusts	X		
Comments:				
Comments:	Wildlife Habitat	X		
	Wildlife Habitat	X		
В	Wildlife Habitat  Wildlife Populations	X		

В	Special Status Species Habitat		X	
Comments:				
В	Special Status Species Populations	X		
Comments:				

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	2	4	4
Н	Hydrologic	0	0	0	7	4
В	Biotic	0	1	4	5	3

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

	<u> </u>			
Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	2	8
Hydrologic		0	0	11
Biotic		1	4	8
Site Notes:				

RFC	Os Upland	and Biotic Standar	d Asses	sment Su	mmary W	orksl	1eet	
		SITE 65074	-HORS	E-D135				
Legal	l Land Desc	SENE 18 0140S 0290 Meridian 23	Е		A	creage	623	
	Ecosite	042CY025NM SHAL SD-3	LOW	Photo Taken		Taken	Y	
	Watershed	13060007100 WHITE	ELAKE					
	Observers	NAVARR0/ARTHUN	1		Observation	n Date	07/2	2/2005
County	Soil Survey	NM666 CHAVES SO	UTH		Soil Var/	Taxad		
So	il Map Unit	Те			Soil Taxon	Name	TEN	ICEE
Те	exture Class	NM666 GR-SL			Soil	Phase	TEN	ICEE
Textu	ıre Modifier	NM666 GRAVELLY SANDYLOAM						
	Avg Annual Precipitation	<u> </u>						
	AA Annual Precipitation	12.2		NOAA Growing Season Precipitation			8.66	
NOAA Avg Annual Precipitation		12.98		NOAA Avg Growing Season Precipitation		_	- 11116	
	rbances and Animal Use:							
Part 2. Attr	ibutes and l	Indicators						
				e from Ecol on/Ecologi		ce Are	as	
Attribute	Indicators		Extreme	Moderate to Extreme	Moderate	Sligh Mode		None to Slight
SH	Rills							X
Comments:								
SH	Water Flow	Patterns				X		
Comments:								
SH	Pedestals ar	nd/or Terracettes				X		
Comments:								
SH	Bare Groun	d			X			
Comments:	Current esti	mate is 60%.						
SH	Gullies							X
Comments:								

S	Wind-scoured, Blowouts, and/or Deposition Areas					X
Comments:						
Н	Litter Movement			X		
Comments:	Litter piling in depressions.					
S H B	Soil Surface Resistance to Erosion					X
Comments:	Plenty of O.M in the interspace so	oil ped sam	ple.			
SHB	Soil Surface Loss or Degradation				X	
Comments:						
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff				X	
Comments:						
S H B	Compaction Layer					X
Comments:						
В	Functional/Structural Groups			X		
Comments:	Blue grama and bush muhly are re	educed. Mo	ore mesquit	e is on site	e than desir	ed.
В	Plant Mortality/Decadence					X
Comments:						
НВ	Litter Amount				X	
Comments:	Current estimate is 30%, but is mout.	ade up mos	stly of annu	al forbs be	eginning to	cure
В	Annual Production			X		
Comments:	Current estimate is 350 lbs/ac.					
В	Invasive Plants		X			
Comments:	Mesquite is common with potenti	al to domir	nate.			
В	Reproductive Capability of Perennial Plants				X	
Comments:						
S	Physical/Chemical/Biological Crusts				X	
Comments:	A good physical and biological cr	ust is obse	rved.			
В	Wildlife Habitat			X		
Comments:						
В	Wildlife Populations			X		
Comments:						

В	Special Status Species Habitat	X	
Comments:	Eastern edge of LPC area		
В	Special Status Species Populations	X	
Comments:	Eastern edge of LPC area		

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	1	4	5
Н	Hydrologic	0	0	2	5	4
В	Biotic	0	1	6	3	3

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	1	9
Hydrologic		0	2	9
Biotic		1	6	6

Site Notes: This site is south of the headquarters on an upland area. The encroachment of mesquite poses a problem as this invasive could become dominant and over-take the pasture. An abundance of mesquite recruitment is obvious with numerous seedlings present. Due to the dry summer thus far, no new growth of perennial grass is evident. A good mulch layer exists on the soil and is stabilizing the site at present. However the mesquite will sooner or later encroach on the entire area. Black grama, dropseed and three-awn are found, but the bush muhly and blue grama have been grazed to 1-1/2" stubble heights in some places. No livestock are in this pasture at present however as they have been removed for this growing season. A forb component of croton, bladderpod and twin-leaf is plentiful, contributing to the ground cover. Dyssodia and snakeweed are also on site in lesser amounts.

RFC	)s Upland	l and Biotic Standar	rd As	sses	sment Su	mmary W	orksheet	
		SITE 65074-1	PIPE	LIN	NE-D136			
Legal	Land Desc	NENW 6 0140S 0290E Meridian 23	Ξ			Acreage	1031	
Ecosite		070BY063NM DEEP SAND CP-2			P	Photo Taken	N	
	Watershed	13060007100 WHITE LAKE						
	Observers	ARTHUN/JAQUEZ			Obser	vation Date	07/13/200	)5
County S	Soil Survey	NM666 CHAVES SOU	UTH		Soil	l Var/Taxad		
Soil	l Map Unit	Rn			Soil T	'axon Name	ROSWEI	L
Тех	xture Class	NM666 FS				Soil Phase	ROSWEI JALMAR	
Textur	e Modifier	NM666 FINE SAND						
Observed Avg Annual Precipitation					Observed Avg Growing Season Precipitation			
NOAA Annual Precipitation		12.2		N	NOAA Growing Season Precipitation		⊔ Xn	
	vg Annual recipitation	12.98			NOAA Avg Growing Season Precipitation			
	bances and nimal Use:							
Part 2. Attr	ibutes and	Indicators						
					e from Ecol on/Ecologic	logical Site	ce Areas	
Attribute	Indicators		Extre	eme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
SH	Rills							X
Comments:		<u>'</u>						
SH	Water Flor	w Patterns					X	
Comments:								
SH	Pedestals a	and/or Terracettes					X	
Comments:					'			
SH	Bare Grou	nd					X	
Comments:	Current es	timate is 40%.						
SH	Gullies							X

Comments:					
S	Wind-scoured, Blowouts, and/or Deposition Areas		X		
Comments:					
Н	Litter Movement			X	
Comments:	Occasionally present.				
SHB	Soil Surface Resistance to Erosion		X		
Comments:					
SHB	Soil Surface Loss or Degradation			X	
Comments:					
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff			X	
Comments:					
SHB	Compaction Layer				X
Comments:					
В	Functional/Structural Groups		X		
Comments:	Absence of dropseed.				
В	Plant Mortality/Decadence				X
Comments:					
НВ	Litter Amount			X	
Comments:	Current estimate is 35%.				
В	Annual Production		X		
Comments:	1/2 of the potential is the current of	estimate at 500 lbs/ac	•		
В	Invasive Plants		X		
Comments:	Mesquite and snakeweed scattered	d.			
В	Reproductive Capability of Perennial Plants			X	
Comments:					
S	Physical/Chemical/Biological Crusts			X	
Comments:	A weak physical crust exists.				
В	Wildlife Habitat		X		
Comments:					
В	Wildlife Populations		X		

Comments:		
В	Special Status Species Habitat X	
Comments:		
В	Special Status Species Populations  X	
Comments:		

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	2	5	3
Н	Hydrologic	0	0	1	7	3
В	Biotic	0	1	7	3	2

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	2	8
Hydrologic		0	1	10
Biotic		1	7	5
Site Notes:				

RFO	s Up	oland and Biotic Standa	rd A	sses	sment Su	mmary W	orksheet		
		SITE 65074-V	WEST	ΓΝΑ	AIL-D134				
Legal Land I	Desc	NWNE 25 0130S 0280E Meridian 23			Acreage		2066		
Eco	osite	070BY063NM DEEP SAN CP-2	III		P	hoto Taken	Y		
Waters	shed	13060007070 LONG							
Obser	vers	NAVARRO/ARTHUN			Obser	vation Date	07/27/200	5	
County Su:	Soil rvey	NM666 CHAVES SOUTH			Soil	Var/Taxad			
Soil Map	Unit	Fr			Soil T	axon Name	FASKIN		
Texture C	Class	NM666 LFS				Soil Phase	FASKIN- ROSWEL	L	
Texture Mod	lifier	NM666 SANDY CLAY LOAM,ER							
Observed An Precipita	nual			Observed Avg Growing Season Precipitation					
NOAA An Precipita			12.2	N		ring Season recipitation	X I		
NOAA An Precipita	nual		12.98			g Growing recipitation		10.67	
Disturbances Animal	I Ica	Livestock are in this pastur minimal. The two-track lea influences from this road ar	ding in	nto th	nis area is ra			line are	
Part 2. Attri	bute	s and Indicators							
					e from Ecol on/Ecologic	logical Site cal Referen	ce Areas		
Attribute	Indic			eme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight	
SH	Rills							X	
Comments:							<u> </u>		
SH	Wate	er Flow Patterns					X		
Comments:						<u> </u>			
SH	Pede	stals and/or Terracettes				X			
Comments:	Some	e exposed roots of the three	awn ar	e sho	owing.				

S H	Bare Ground			X	
Comments:	Current estimate is 50%.				
SH	Gullies				X
Comments:	Except for pipeline road, no serior	us gullying exists.			
S	Wind-scoured, Blowouts, and/or Deposition Areas		X		
Comments:	Occasionally present.				
Н	Litter Movement		X		
Comments:	Litter of sunflower, grass and shir against obstructions.	nery oak is piling	in depressiona	al areas and	d
S H B	Soil Surface Resistance to Erosion			X	
Comments:	There is adequate O.M. in the inte	rspaces.			
S H B	Soil Surface Loss or Degradation			X	
Comments:	Some horizon loss exists.				
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff			X	
Comments:					
SHB	Compaction Layer				X
Comments:					
В	Functional/Structural Groups		X		
Comments:	Dropseed and bluestem down in for somewhat.	avor of three-awn.	Shinnery oak	is reduced	
В	Plant Mortality/Decadence				X
Comments:					
Н В	Litter Amount			X	
Comments:	Current estimate is 30%.				
В	Annual Production			X	
Comments:	600-700 lbs/ac or kg/ha is the curr	ent estimate.		·	
В	Invasive Plants		X		
Comments:	Mesquite is scattered, with potent	ial to become com	mon.	·	
В	Reproductive Capability of Perennial Plants			X	
Comments:	The current grazed perennial grass seed head or tillers; little bluestem			ot establis	hed
S	Physical/Chemical/Biological			X	

	Crusts				
Comments:	An ample physical crust exists.				
В	Wildlife Habitat				X
Comments:	Sign of mule deer and lagomorph buckwheat and stick-leaf.	species. For	bs are in a	bundance 6	especially
В	Wildlife Populations				X
Comments:					
В	Special Status Species Habitat			X	
Comments:					
В	Special Status Species Populations		X		
Comments:					

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	2	5	3
Н	Hydrologic	0	0	2	6	3
В	Biotic	0	1	3	7	2

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	2	8
Hydrologic		0	2	9
Biotic		1	3	9

Site Notes: This site is adjacent to a major pipeline dissecting the pasture. The rebar and cage are missing. The influence from the pipeline is minimal. Three-awn is dominant throughout with the bluestems in lesser amounts. These grasses however have been utilized. The forb component in

the form of sunflower, buckwheat and stick-leaf are also on site and in abundance. Litter is mainly in the form of sunflower stalks and shinnery leaves in some areas. Some soil loss is evident as the roots of some three-awn are exposed especially in the flow paths.

Mule deer and lagomorphs are inhabiting this pasture and the ranch as a whole. Adequate cover exists in the form of sand sage, mesquite and shinnery. Livestock are in this pasture at the moment but are congregated at the water troughs at the present time.

## Determination of Public Land (Rangeland) Health for 65074 SAND CAMP RANCH

The Record of Decision (ROD) for the New Mexico Standards for Public Land Health and Guidelines for Livestock Grazing Management (dated January 2001) adopted three Standards for Public Land Health. These are (1) Upland Sites Standard, (2) Biotic Communities, Including Native, Threatened, Endangered, and Special Status Species Standard and (3) Riparian Sites Standard.

The ROD also established a process for the BLM Field Offices for the implementation. Through a public participation process, the Roswell Field Office developed and adopted indicators to use in conjunction with existing monitoring data to assess these standards.

Field assessment worksheets and other available data that evaluate the local indicators were completed for this allotment. Based on the assessments, it is my determination that public land within Sand Camp Ranch allotment #65074, meets the (1) Upland Sites standard and (2) Biotic Communities, including Native, Threatened, Endangered, and Special Status Species standard. There are no public land Riparian areas on this allotment, therefore this standard was not addressed.

/s/ J. Howard Parman
Acting Assistant Field Manager

8/8/2005

Date